

CLAIMS

1. A glass identification method for recycling a target material that includes glass, comprising the steps of:
 - 5 irradiating the target material with X-rays to obtain a fluorescent X-ray spectrum for the target material; and identifying the type of glass included in the target material by analyzing and comparing the fluorescent X-ray spectrum group for a specific substance group with the fluorescent X-ray spectrum of the target material,
 - 10 wherein the step of identifying the type of glass involves performing compositional analysis of the fluorescent X-ray spectrum of the target material and compositional analysis of the fluorescent X-ray spectrum group of the specific substance group, comparing the analysis results, and determining the degree of agreement.
- 15 2. A glass identification method for recycling a target material that includes glass, comprising the steps of:
 - irradiating the target material with X-rays to obtain a fluorescent X-ray spectrum for the target material; and identifying the type of glass included in the target material by analyzing and comparing the
 - 20 fluorescent X-ray spectrum group for a specific substance group with the fluorescent X-ray spectrum of the target material, wherein the step of identifying the type of glass involves finding the difference between the fluorescent X-ray spectrum of the target material and the various spectra of the fluorescent X-ray spectrum group of the specific substance group, and determining the degree of agreement.
- 25 3. The glass identification method according to Claim 1 or 2, wherein the target material and/or the specific substance group is a glass substrate used for a display.
4. The glass identification method according to Claim 1 or 2, wherein the target material and
30 the specific substance group include at least one element selected from potassium, calcium, iron, strontium, zirconium, barium, and hafnium.
5. A glass identification apparatus, comprising:
 - an X-ray tube for irradiating a target material that includes glass with X-rays;
 - 35 a detector for measuring the intensity of fluorescent X-rays emitted from the target material;

- a memory unit for storing data of the fluorescent X-ray spectrum group of the specific substance group; and
 - a computing unit for identifying the type of glass included in the target material by finding the fluorescent X-ray spectrum of the target material from the measurement results of the detector, and
- 5 analyzing and comparing the fluorescent X-ray spectrum of the target material with the data for the fluorescent X-ray spectrum group of the specific substance group.